HW 2-13 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Perpendicular Lines

1) Which equation represents a line perpendicular to the line y = 2x - 5?

(1) y = -1/2x + 2 (2) y = 2x + 3 (3) y = -2x + 4

2) Which equation represents a line perpendicular to the line y = -3/4x + 5?

(1) y = 4x (2) y = 4/3x +3 (3) y = -3/4x – 2

3) Which equation represents a line perpendicular to the line 3y = 2x + 8?

(1) y = 2/3x + 1 (2) y = -3/2x (3) y = 3/2x + 10

4) Write an equation of a line perpendicular to y = 1/3x + 4 passing through point (6, 4).

5) Write an equation of a line perpendicular to 3y = 4x + 6 passing through point (4, -8).

6) Write an equation of a line perpendicular to 5x + y = 1 passing through point (10, 7).